Application No.: 10/529,012 Docket No.: BA9313USPCT

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Amendments to Claims

What is claimed is:

1. (currently amended) A compound of Formula I, its N-oxide or an agronomic or nonagronomic suitable salt thereof

$$R^{4a}$$
 R^{4a}
 R^{4a}

wherein:

Y and V are each independently N or CR^{4a};

W is N, CH or CR⁶;

R¹ is H; or C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl or C₃-C₆ cycloalkyl, each optionally substituted with 1 to 5 substituents independently selected from the group consisting of halogen, CN, NO₂, hydroxy, C₁-C₄ alkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₂-C₄ alkoxycarbonyl, C₁-C₄ alkylamino, C₂-C₈ dialkylamino and C₃-C₆ cycloalkylamino; or

R¹ is C₂-C₆ alkylcarbonyl, C₂-C₆ alkoxycarbonyl, C₂-C₆ alkylaminocarbonyl or C₃-C₈ dialkylaminocarbonyl;

R² is H, C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₁-C₄ alkoxy, C₁-C₄ alkylamino, C₂-C₈ dialkylamino, C₃-C₆ cycloalkylamino, C₂-C₆ alkylcarbonyl;

R³ is H; G; C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl or C₃-C₆ cycloalkyl, each optionally substituted with 1 to 5 substituents independently selected from the group consisting of halogen, G, CN, NO₂, hydroxy, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₂-C₆ alkoxycarbonyl, C₂-C₆ alkylcarbonyl, C₃-C₆ trialkylsilyl, phenyl, phenoxy and 5- or 6-membered heteroaromatic ring, each phenyl, phenoxy and 5- or 6-membered heteroaromatic ring optionally substituted with 1 to 3 substituents independently selected from R¹⁴; C₁-C₄ alkoxy; C₁-C₄ alkylamino; C₂-C₆ dialkylamino; C₃-C₆ cycloalkylamino; C₂-C₆ alkoxycarbonyl; C₂-C₆

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- alkylcarbonyl; or phenyl optionally substituted with 1 to 3 substituents independently selected from R¹⁴; or
- R² and R³ are taken together with the nitrogen to which they are attached to form a ring containing 2 to 6 atoms of carbon and optionally one additional atom of nitrogen, sulfur and oxygen, said ring optionally substituted with 1 to 4 substituents independently selected from the group consisting of C₁-C₂ alkyl, halogen, CN, NO2 and C1-C2 alkoxy;
- G is a 5- or 6-membered nonaromatic carbocyclic or heterocyclic ring, optionally including one or two ring members independently selected from the group consisting of C(=0), S(0) [[or]] and S(0)₂ and optionally substituted with 1 to 4 substituents independently selected from the group consisting of C₁-C₂ alkyl, halogen, CN, NO2 and C1-C2 alkoxy;
- R^{4a} and R^{4b} are each independently H, C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₁-C₆ haloalkyl, C₂-C₆ haloalkenyl, C₂-C₆ haloalkynyl, C₃-C₆ halocycloalkyl, halogen, CN, SCN, NO₂, hydroxy, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ alkylsulfonyloxy, C₁-C₄ haloalkylthio, C₁-C₄ haloalkylsulfinyl, C₁-C₄ haloalkylsulfonyl, C₁-C₄ haloalkylsulfonyloxy, C₁-C₄ alkylamino, C₂-C₈ dialkylamino, C₃-C₆ cycloalkylamino, C₂-C₆ alkylcarbonyl, C₂-C₆ alkoxycarbonyl, C2-C6 alkylaminocarbonyl, C3-C8 dialkylaminocarbonyl or C3-C₆ trialkylsilyl; or
- R^{4a} and R^{4b} are each independently phenyl, benzyl or phenoxy, each optionally substituted with 1 to 3 substituents independently selected from R¹⁴;
- R⁵ is C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₄-C₇ alkylcycloalkyl, C₁-C₆ haloalkyl, C₂-C₆ haloalkenyl, C₂-C₆ haloalkynyl, C₃-C₆ halocycloalkyl[[,]] or C₄-C₇ haloalkylcycloalkyl, each substituted with 1 to 2 substituents independently selected from R¹¹; or
- R^5 is OR^7 , $S(O)_DR^7$, NR^8R^9 , $OS(O)_2R^{10}$, $NR^9S(O)_2R^{10}$, $C(S)NH_2$, $C(R^{13})=NOR^{13}$, C₄-C₇ halocycloalkylalkyl, C₁-C₄ alkylaminothiocarbonyl or C₁-C₄ dialkylaminothiocarbonyl;
- each R⁶ is independently C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C1-C6 haloalkyl, C2-C6 haloalkenyl, C2-C6 haloalkynyl, C3-C6 halocycloalkyl, halogen, CN, CO₂H, C(O)NH₂, NO₂, hydroxy, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ haloalkylthio, C₁-C₄ haloalkylsulfinyl, C₁-C₄ haloalkylsulfonyl, C₁-C₄ alkylamino, C2-C8 dialkylamino, C3-C6 cycloalkylamino, C2-C6 alkylcarbonyl, C2-C6 alkoxycarbonyl, C2-C6 alkylaminocarbonyl, C3-C8 dialkylaminocarbonyl[[,]] or C3-C6 trialkylsilyl; or

each R⁶ is independently a phenyl, benzyl, benzyl, phenoxy, 5- or 6-membered heteroaromatic ring or an aromatic 8-, 9- or 10-membered fused heterobicyclic ring system, each ring optionally substituted with 1 to 3 substituents independently selected from R¹⁴;

- each R⁷ is independently C₁-C₆ alkyl substituted with R¹²; or C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₄-C₇ cycloalkylalkyl, C₄-C₇ alkylcycloalkyl, C₂-C₆ haloalkenyl, C2-C6 haloalkynyl, C3-C6 halocycloalkyl, C4-C7 haloalkylcycloalkyl, C₄-C₇ halocycloalkylalkyl or C₂-C₆ haloalkylcarbonyl, each optionally substituted with one R^{12} ;
- R⁸ is C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₄-C₇ alkylcycloalkyl, C₁-C₆ haloalkyl, C₂-C₆ haloalkenyl, C₂-C₆ haloalkynyl, C₃-C₆ halocycloalkyl, C₄-C₇ haloalkylcycloalkyl or C₂-C₆ haloalkylcarbonyl, each substituted with one R¹²;
- R⁹ is H; or C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₄-C₇ alkylcycloalkyl, C₁-C₆ haloalkyl, C₂-C₆ haloalkenyl, C₂-C₆ haloalkynyl, C₃-C₆ halocycloalkyl or C₄-C₇ haloalkylcycloalkyl, each optionally substituted with one R^{12} ;
- R¹⁰ is C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₆ cycloalkyl, C₄-C₇ alkylcycloalkyl, C₁-C₆ haloalkyl, C₂-C₆ haloalkenyl, C₂-C₆ haloalkynyl, C₃-C₆ halocycloalkyl or C₄-C₇ haloalkylcycloalkyl, each optionally substituted with one \mathbb{R}^{12} ;
- each R¹¹ is independently C₁-C₆ alkoxy, C₁-C₆ haloalkoxy, C₁-C₆ alkylthio, C₁-C₆ haloalkylthio, C₁-C₆ alkylsulfinyl, C₁-C₆ haloalkylsulfinyl, C₁-C₆ alkylsulfonyl, C₁-C₆ haloalkylsulfonyl, CN or C₂-C₄ alkoxycarbonyl;
- each R¹² is independently C₁-C₆ alkoxy, C₁-C₆ haloalkoxy, C₁-C₆ alkylthio, C₁-C₆ haloalkylthio, C₁-C₆ alkylsulfinyl, C₁-C₆ haloalkylsulfinyl, C₁-C₆ alkylsulfonyl, C₁-C₆ haloalkylsulfonyl, CN, NO₂, C₂-C₄ alkoxycarbonyl, C₁-C₆ alkylamino or C₂-C₆ dialkylamino; or
- each R¹² is independently a phenyl or a 5- or 6-membered heteroaromatic ring, each ring optionally substituted with 1 to 3 substituents independently selected from R¹⁴;
- each R¹³ is independently H, C₁-C₄ alkyl[[,]] or C₁-C₄ haloalkyl;
- each R¹⁴ is independently C₁-C₄ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₃-C₆ cycloalkyl, C1-C4 haloalkyl, C2-C4 haloalkenyl, C2-C4 haloalkynyl, C3-C6 halocycloalkyl, halogen, CN, NO2, C1-C4 alkoxy, C1-C4 haloalkoxy, C1-C4 alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ alkylsulfinyl, C₂-C₈ dialkylamino, C₃-C₆ cycloalkylamino, C₃-C₆ (alkyl)cycloalkylamino, C₂-C₄

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alkylcarbonyl, C2-C6 alkoxycarbonyl, C2-C6 alkylaminocarbonyl, C3-C8 dialkylaminocarbonyl or C3-C6 trialkylsilyl;

n is 0, 1, 2, 3 or 4; and

p is 0, 1 or 2.

- (original) The compound of Claim 1 wherein
- R¹ is H, C₁-C₄ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₃-C₆ cycloalkyl, C₂-C₆ alkylcarbonyl or C₂-C₆ alkoxycarbonyl;
- R² is H, C₁-C₄ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₃-C₆ cycloalkyl, C₂-C₆ alkylcarbonyl or C2-C6 alkoxycarbonyl;
- R³ is C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl or C₃-C₆ cycloalkyl each optionally substituted with 1 to 5 substituents independently selected from the group consisting of halogen, CN, C1-C2 alkoxy, C1-C2 alkylthio, C1-C2 alkylsulfinyl and C₁-C₂ alkylsulfonyl;
- R^{4a} and R^{4b} are each independently H, C₁-C₄ alkyl, C₁-C₄ haloalkyl, halogen, CN, NO₂, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ haloalkylthio, C₁-C₄ haloalkylsulfinyl or C₁-C₄ haloalkylsulfonyl;
- each R⁶ is independently C₁-C₄ alkyl, C₁-C₄ haloalkyl, halogen, CN, NO₂, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ haloalkylthio, C₁-C₄ haloalkylsulfinyl, C₁-C₄ haloalkylsulfonyl or C2-C4 alkoxycarbonyl; and

n is 0, 1 or 2.

3. (currently amended) The compound of Claim 2 wherein:

Y and V are each independently N or CH;

W is N, CH, CF, CCl, CBr or CI;

 R^1 is H;

R² is H or CH₃;

- R³ is C₁-C₄ alkyl optionally substituted with 1 to 5 substituents independently selected from the group consisting of halogen, CN, OCH₃ and S(O)_pCH₃;
- R^{4a} and R^{4b} are each independently H, CH₃, CF₃, OCF₃, OCHF₂, S(O)_pCF₃, S(O)_pCHF₂, CN or halogen;
- each R⁶ is independently halogen, CN, CH₃, CF₃, OCHF₂, S(O)_pCF₃, S(O)_pCHF₂, OCH₂CF₃, OCF₂CHF₂, S(O)_pCH₂CF₃ or S(O)_pCF₂CHF₂; and n is 0 or 1.
- (currently amended) The compounds compound of Claim 3 wherein W is N; and

R^{4a} and R^{4b} are each independently H, CH₃, CF₃, CN or halogen.

5. (original) The compound of Claim 4 wherein Docket No.: BA9313USPCT

 R^3 is C_1 - C_4 alkyl; R^{4a} is H, CH₃, Cl, Br or I; R4b is H, F, Cl, Br, I, CN or CF3; R⁵ is OS(O)₂CH₃, OS(O)₂CF₃, CF₂O(C₁-C₄ alkyl), CF₂S(C₁-C₄ alkyl) or C₃-C₄ haloalkenyloxy; and R⁶ is CH₃, CF₃, OCH₂CF₃, OCHF₂ or halogen at position 2. (currently amended) The compounds compound of Claim 4 wherein \mathbb{R}^3 is \mathbb{C}_1 - \mathbb{C}_4 alkyl; R^{4a} is H, CH₃, Cl, Br or I; R4b is H, F, CI, Br, I, CN or CF3; and R⁵ is C₂-C₆ alkenyloxy, C₂-C₆ alkynyloxy, C₁-C₆ alkoxy substituted with CN or C₁-C₂ alkoxy. (currently amended) The compounds compound of Claim 4 wherein 7.

- \mathbb{R}^3 is \mathbb{C}_1 - \mathbb{C}_4 alkyl; R^{4a} is H, CH₃, Cl, Br or I; R^{4b} is H, F, Cl, Br, I, CN or CF₃; and R^5 is $C(R^{13})=NOR^{13}$.
- (original) A composition of controlling an invertebrate pest comprising. 8. biologically effective amount of a compound of Claim 1 and at least one additional component selected from the group consisting of a surfactant, a solid diluent, and a liquid diluent, said composition optionally further comprising an effective amount of at least one additional biologically active compound or agent.
- (currently amended) The composition of Claim 8 wherein the additional biologically active compound or agent is present and is selected from the group consisting of cypermethrin, cyhalothrin, cyfluthrin, beta-cyfluthrin, esfenvalerate, fenvalerate, tralomethrin, fenothicarb, methomyl, oxamyl, thiodicarb, clothianidin, imidacloprid, thiacloprid, indoxacarb, spinosad, abamectin, avermectin, emamectin, y-aminobutyric acid, endosulfan, ethiprole, fipronil, flufenoxuron, triflumuron, diofenolan, pyriproxyfen, pymetrozine, amitraz, Beaillus thuringiensis Bacillus thuringiensis, Bacillus thuringiensis Bacillus thuringiensis delta endotoxin, a member of the family Baculoviridae, and entomophagous fungi.
- (original) A method for controlling an invertebrate pest comprising contacting 10. the invertebrate pest or its environment with a biologically effective amount of a compound of Claim 1 or with a biologically effective amount of a composition of Claim 8.
- (currently amended) The method of Claim 10 wherein the invertebrate pest is 11. a cockroach, an ant or a termite which contacts the compound by consuming a bait composition comprising the compound or the composition.

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- 12. (currently amended) The method of Claim 10 wherein the invertebrate pest is a mosquito, a black fly, a stable[[,]] fly, a deer fly, a horse fly, a wasp, a yellow jacket, a hornet, a tick, a spider, an ant, or a gnat which is contacted by a spray composition comprising the compound or the composition dispensed from a spray container.
 - 13. (canceled) A spray composition, comprising:
 - (a) a compound of Claim 1 or a composition of Claim 8; and
 - (b) a propellant.
 - 14. (canceled) A bait composition, comprising:
 - (a) a compound of Claim 1 or a composition of Claim 8;
 - (b) one or more food materials;
 - (c) optionally an attractant; and
 - (c) optionally a humectant.
 - 15. (canceled) A device for controlling an invertebrate pest, comprising:
 - (a) the bait composition of Claim 14; and
 - (b) a housing adapted to receive the bait composition, wherein the housing has at least one opening sized to permit the invertebrate pest to pass through the opening so the invertebrate pest can gain access to the bait composition from a location outside the housing, and wherein the housing is further adapted to be placed in or near a locus of potential or known activity for the invertebrate pest.